

# Declaration of Performance

Unambiguous ID code of the product type: **Block Glued Glulam**

Intended use: structural work and bridges

Manufacturer: **Lilleheden A/S**  
**Hovedvejen 114**  
**9850 Hirtshals**  
**Denmark**

Authorized representative: **no external authorized representative**

System for assessing and verifying the constancy of performance: **System 1**

Harmonized standard: **EN 14080:2013**

Notified body: **Nr. 0672**

Performance declared:

Essential characteristics	Performance
<b>Mechanical properties as</b>	
modulus of elasticity bending strength compressive strength tensile strength shear strength	Mechanical properties of strength classes for <i>Block glued glulam</i> GL 24h <i>Block glued glulam</i> GL 30c  The allocation of the construction products supplied to the individual strength classes can be taken from the accompanying documents.
<b>Geometric data</b>	for all product types widths ranging between 240 mm and 600 mm heights ranging between 2000 mm and 3000 mm lengths of up to 48 m The relevant product dimensions can be taken from the accompanying documents.
<b>Bonding strength as</b>	
bending strength of finger joints glue line integrity	for all product types as specified pursuant to EN 14080, Tables 2 & 3 delamination test pursuant to EN 14080, Annex C, Method B

<b>Durability of bonding strength as</b>	
species,	<i>Block Glued Glulam:</i> Spruce ( <i>picea abies</i> )
adhesive	Growth area; NNE Europe (Northern and North Eastern Europe)
	for all product types
	adhesive for surface bonding MUF, EN301-I-90-GP-0,3-S
	adhesive for finger-joints: MUF, EN301-I-90-FJ-0,1-S
	adhesive for surface bonding: PRF, EN301-I-90-GF-1,5-M
<b>Durability against biological attack as</b>	
natural durability class against wood destroying fungi EN 350-2	for all product types: 4
<b>Fire resistance as</b>	
geometric data	for all product types: see „Geometric data“
charring rate as	for all product types: characteristic raw density of the relevant strength class
<ul style="list-style-type: none"> <li>• characteristic density</li> <li>• species</li> </ul>	for all product types: see “Durability of bonding strength”
<b>Reaction to fire as</b>	
Reaction to fire class	for all product types: D-s2, d0 pursuant to EN 14080, Table 11
<b>Emission of formaldehyde as</b>	
formaldehyde emission class	for all product types: E 1
<b>Release of other dangerous substances</b>	
release of other dangerous substances	for all product types: not relevant

The characteristics of the above product conform to the performance declared. The above named manufacturer is exclusively responsible for preparing the Declaration of Performance in accordance with Regulation EU/305/2011.

Signed on behalf of the manufacturer and in his name by:

Klaus Thomsen – Project Manager

.....  
(Name and function)



Hirtshals 02/06-2016

.....  
(Place & date of issue)

(Signature)



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**Lilleheden A/S**  
**Hovedvejen 114**  
**9850 Hirtshals**  
**Denmark**

**15**

**EN 14080:2013**

Block glued glulam to be used in buildings and bridges

Block glued glulam

**Mechanical properties and fire resistance as**

– strength class and characteristic raw density	GL 24h
– species	Spruce ( <i>Picea abies</i> )

**Bonding strength as**

– bending strength of finger joints	pursuant to EN 14080:2013
– glue line integrity	B

**Reaction to fire** D-s2, d0


**Emission of formaldehyde** E1

**Durability of bonding strength as**

– species	Spruce ( <i>Picea abies</i> )
– adhesive for the surface bonding between the lamellas	MUF, EN301-I-90-GP-0,3-S
– adhesive for finger joints	MUF, EN301-I-90-FJ-0,1-S
– adhesive for block gluing of glulam	PRF, EN301-I-90-GF-1,5-M

**Durability of other properties as**

– natural durability against wood destroying fungi	4
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<b>EN 14080:2013</b> Block glued glulam to be used in buildings and bridges Block glued glulam	
<b>Mechanical properties and fire resistance as</b>	
– strength class and characteristic raw density	GL 30c
– species	Spruce ( <i>Picea abies</i> )
<b>Bonding strength as</b>	
– bending strength of finger joints	pursuant to EN 14080:2013
– glue line integrity	B
<b>Reaction to fire</b>	D-s2, d0
<b>Emission of formaldehyde</b>	E1
<b>Durability of bonding strength as</b>	
– species	Spruce ( <i>Picea abies</i> )
– adhesive for the surface bonding between the lamellas	MUF, EN301-I-90-GP-0,3-S
– adhesive for finger joints	MUF, EN301-I-90-FJ-0,1-S
– adhesive for block gluing of glulam	PRF, EN301-I-90-GF-1,5-M
<b>Durability of other properties as</b>	
– natural durability against wood destroying fungi	4